XM-100 Commercial XM Satellite Radio

Owner's Manual



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FCC Compliance Statement for United States Users

This equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. Changes or modifications made to this equipment not expressly approved by Antex Electronics could void the user's authority to operate the equipment.

IMPORTANT SAFETY INSTRUCTIONS

- ? Read Instructions Read all Safety Instructions before operating equipment.
- ? Retain Instructions Save these instructions for future reference.
- ? Heed Warnings All warnings and these instructions should be adhered to.
- ? Follow Instructions All operating and use instructions should be followed.
- ? Cleaning –Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- ? Attachments Do not use attachments not recommended by the manufacturer as they may cause hazards.
- ? Water and Moisture Do not use this product near water for example near a bathtub, wash bowl, kitchen sink or a room where moisture is likely to occur.
- ? Accessories Do not place on an unstable surface (cart table or tripod) where tipping is a possibility.
- ? Ventilation Install unit in well ventilated area where self generated heat may escape. Bookcases or cabinets should have proper venting to allow heat to escape.
- ? Power outlet A properly grounded wall outlet must be used. Do not use a plug adapter that bypasses the three-terminal ground plug.
- ? Power Cord Protection Route your power cords out of traffics way so as not to be walked on or traveled over by carts wheels. Do not place items on top of or against the cordso as to pinch the cord.
- ? Outdoor Antenna Grounding The antenna and coaxial cable connecting to the unit must be properly grounded to provide some protection against

- or circuits as contact with them might be fatal.
- ? Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electrical shock.
- ? Object and Liquid Entry- Never push objects of any kind into this product through openings as they may short-out parts that could cause a fire. Never spill liquid of any kind on the product.
- ? Servicing Do not attempt to service this product yourself; there are no customer serviceable parts inside. Refer all servicing to qualified service personnel.

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

- ? Damage Requiring Service Unplug this product from the wall outlet and refer servicing to a gualified service person under the following conditions:
 - a) When the power-supply cord or plug is damaged.
 - b) If liquid has been spilled, or objects have fallen into the product.
 - c) If product has been exposed to rain or water.
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - e) If the product has been dropped or damaged in any way.
 - f) When the product exhibits a distinct change in performance this indicates a need for service.
- ? Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, shock, or other hazards.
- ? Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- ? Heat The product shall be situated away sources such as radiators, heat resistors, heat registers, stoves, or amplifier that produce heat.
- ? <u>Technology</u> It is prohibited to copy, decompile, disassemble, reverse engineer, or manipulate any technology incorporated in receivers compatible with the XM Satellite Radio system. Furthermore, the AMBE (R) voice compression software included in this product is protected by intellectual property rights including patent rights, copyrights, and trade secrets of Digital Voice Systems, Inc. The user of this or any other software contained in an XM Radio is explicitly prohibited from attempting to copy, decompile, reverse engineer, or disassemble the object code, or in any other wayconvert the object code into human-readable form. The software is licensed solely for use

Thank you for choosing the world's finest high-fidelity, commercial XM satellite radio receiver.

There's a world beyond AM and FM. XM Satellite Radio. Over 150 channels of music, news, sports, comedy, talk, and entertainment. Coast-to-coast coverage. Digital quality sound. 100% commercial-free music channels and the deepest playlist in the industry with over 2 million titles. For an up-to-date channel lineup, please visit www.xmradio.com.

Hardware and required basic monthly subscription sold separately. Premium Channel available at additional monthly cost. Installation costs and other fees and taxes, including a one-time activation fee may apply. Subscription fee is commercial only. All fees and programming subject to change. Channels with frequent explicit language are indicated with an XL. Channel blocking is available for XM radio receivers by calling 1-800-XMRADIO. Subscriptions subject to Customer Agreement available at xmradio.com. Only available in the 48 contiguous United States. XM® is a registered trademark of XM Satellite Radio Inc. © 2005 XM Satellite Radio Inc. All rights reserved. **This unit requires a monthly subscription from XM Satellite Radio.** To subscribe, contact XM on the Web at <u>www.xmradio.com</u> or by phone at 1-800-XM-RADIO (or 1-800-967-2346).

Installing XM-100

Antex Electronics recommends that the XM-100 unit and its antenna be installed by a professional installer. Brief instructions are presented here for reference purposes.

The installation process consists of three steps:

1 connecting the radio to audio equipment

parts listed below:

- ? XM-100 unit ? Power Adapter
- ? Antenna ? RCA audio cable
- ? Remote control

Connections

House the XM-100 unit in a component rack or other suitable location that provides adequate ventilation. **The maximum ambient temperature should never exceed 120 degrees Fahrenheit.** The unit's front user interface and various connectors on the back of the unit are shown here:





RF IN Connect to antenna	RCA line level audio out	3.5 mm line level audio out	RS232 control port	DC power in
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Connect the XM-100 as follows:

- gold jack and position as described in the next section. The antenna comes with 20 feet of cable. If that is not sufficient to locate the antenna where there is a strong XM signal, purchase a 50-foot cable extension kit. Up to two extensions can be used together for up to 120 total feet of cable. Alternatively, custom lengths of 50 ohm RG58U may be used or extension kits available from third party sources (see enclosed flier).
- RS232 an RS232 control port is provided for optional control of the XM-100 unit from 3rd party control systems. Antex recommends that this connection be used only by experienced professional installers. Do not connect this RS232 port to a computer – this connection is NOT compatible with personal computers. See <u>www.antex.com</u> for more information about using the RS232 control port.

Positioning the Antenna

The provided XM antenna requires exposure to the south/southeastern sky for proper signal reception. To position your antenna, first connect the XM-100 to your audio system as described above, then follow these instructions.

- Power on the receiver, verify the power indicator is illuminated and the display backlight is on. If the message "CHECK ANTENNA" appears, check that the antenna connector is fully engaged, an open circuit does not exist between the receiver and antenna, and that no short circuit exists in the antenna cable. If the antenna does not have a clear path to the satellites, the front panel display will read "NO SIGNAL".
- 2. Align the Antenna as follows:



- b) Turn the base of the antenna so that the XM logo is facing to the south if you are in the eastern half of the U.S. and to the south/southeast if you are in the western half of the U.S.
- c) Bring up the signal strength menu by holding down the power button for 4 seconds and optimize signal strength using the instructions in the next section. Exit signal strength Mode by pressing the power button.
- d) If necessary, experiment with different antenna locations near a south-facing window or outside.

For Outdoor installation or indoor wall mounting:

The antenna can also be attached vertically to an external or internal wall if that is more convenient than placing it on a horizontal surface.

- a) Holding your antenna up, find a wall location that ensures a strong signal.
- b) Attach antenna to the wall using four screws.
- c) Tilt the antenna fully back on the base, place the antenna base on the four screw heads with the antenna pivot at the top, and pull down approximately 1/4 inch until the base is firmly secured. Note that the XM logo will be upside down when the antenna is properly installed.
- d) Bring up the signal strength menu by holding down the power button for 4 seconds and optimize signal strength using the instructions in the next section. Tilt the antenna away from the wall/base until the signal strength is optimized. Exit signal strength Mode by pressing the power button.
- 3. Power on your sound system and turn the amplifier to a low volume.

5. Activate the unit following the "Activating XM-100" instructions.

Optimizing Signal Strength

For robust operation, signal strength received from the antenna must be optimized. Optimum alignment of the antenna may be achieved using the signal strength menu. Press and hold the power button for 4 seconds, a display similar to below will appear.

CN1	CN2	TBER
9.0	8.5	12%

CN1 and CN2 indicate the carrier to noise ratio of the satellite signal received from the two XM satellites positioned in the southern sky over the equator. The higher the number the better, and both numbers should be 10 or greater for good margin, but not less than 7.0.

TBER is the percentage of bit errors received from a terrestrial repeater, if there is one. Acceptable values for this number may be anywhere from 0% if a repeater is nearby, to 100% if only the satellite signals are available – lower is better. The audio mute threshold for the terrestrial signal is approximately 6% bit error rate.

Position and rotate the antenna for the optimum balance (highest readings) for CN1 and CN2. Note that CN1 measures signal reœived from the satellite in the Eastern sky, CN2 signal received from the satellite in the Western sky. Obstructions such as trees or tall buildings may interfere with reception of one or more satellite signals and require that the antenna be repositioned After the channel 1 audio verification test, you must activate your XM-100 to access all XM channels. Commercial accounts must sign up for and activate under the terms of XM's Commercial Service.

To activate the radio you must first obtain the XM Radio ID number of your unit. Tune the receiver to channel 0 by using the down button on the unit's front or press 0 on the remote control. The 8 digit XM Radio ID will be displayed.

Record the 8 character ID in the space below, noting that letters I, O, S and F are not used and that the number zero has a line running diagonally through it.

XM Radio ID: _____

Activate your XM radio service by calling XM at 1-800-XM-RADIO (1-800-967-2346). Commercial accounts cannot be activated via the Internet. A friendly listener care representative will assist you in activating your unit. Customers should have their Radio ID ready; the Radio ID can be found by selecting channel 0 on the radio.

Operating the XM-100

XM-100 provides intuitive control of its various functions via its front panel buttons as shown on the next page, the remote control, and the RS232 port (for local and remote operation). Note that in the event of power loss, the radio will automatically return to its state before power loss.

Basic operation allows the user to:

- ? Change channels and music categories
- ? Enter a channel number on the remote to tune to a channel directly

the channel currently tuned to, including channel number and channel name on the first line and scrolling artist name and song title on the second line.



The display backlight is illuminated and text appears after the power button has been pressed, indicating the unit is on.

The XM-100 has four indicators and four buttons as follows (Modes are described below):

- ? Power Indicator illuminated whenever power present
- ? Setup Indicator illuminated when in Setup Mode
- ? CHAN Indicator illuminated when in Channel Mode. Both CHAN and CAT indicator illuminated in Channel/category Mode.
- ? CAT Indicator illuminated when in Category Mode. Both CHAN and CAT indicator illuminated in Channel/category Mode.
- ? Power Button turns unit on/off. Hold for signal strength. Press to exit setup menus.
- ? Mode Button cycles operational Mode of unit through Channel, Category, Channel Category, or Setup. Holding for 4 seconds enters Setup Mode.
- ? Up and Down Buttons changes channels and used for menu navigation.

Channel (default), Category and Category/Channel. Examples of categories are Rock, Classical, etc.

Channel Mode allows you to scroll through and select any channel in the entire XM lineup regardless of what category the channel belongs to. Channel Mode is the default Mode at power up. When you switch to Category Mode, the unit will scroll through the different Categories offered by XM. Category/Channel Mode allow the user to scroll through channels only within the current category. This is particularly useful when, for example, if you want to listen to and scroll through news channels only.

To cycle through the three tuning Modes, press the MODE button. By default the unit is in Channel Mode and the CHAN LED is illuminated. When you press the MODE button once, the unit will enter Category Mode and the "CAT" LED is illuminated on the front panel. Press MODE again to enter Category/Channel Mode (both CHAN and CAT LEDS are illuminated) and again to return to CHAN Mode.

Changing Channels

You can change channels in either Channel or Category/Channel Mode using three methods:

- ? Channel up/down buttons
- ? Direct channel entry using numbered buttons on the remote
- ? Preset button on the remote to tune to a preset channel

Use the up/down buttons on the front panel or remote to scroll through channels. You will notice that the channel number and name, artist name, and song title information in the display change to reflect the new channel. Selection (and audio) of the presets simply by pressing the PRESET button on the remote, then an appropriate numeric button. For example, if preset 0 were set to Rock, preset 1 to Hits, and preset 2 to News, you could jump to the News channel quickly by pressing "PRESET-2."

Changing Categories

The channels of the XM service are conveniently organized into categories such as Hits, Rock, News, Sports, etc. To enter Category Mode, press the "MODE" button on the front panel to illuminate the "CAT" LED on the front panel. Alternatively, press the CAT button on the remote control.

Press the up/down buttons to tune to a different category. Note that the category name, channel number, artist name, and song title information in the display change to reflect the new category. A channel's category may be displayed at any time by entering Category Mode.

Setting and Recalling Presets

The XM-100 can store up to 10 channel presets (numbered 0 to 9). To assign a preset, first tune to a desired channel, in this example 44. Then press and hold the PRESET button on the remote for 4 seconds. The display will change to:

SAVE	044	то
PRESE	ET NO	D.?

Press the numeric button you wish to assign this channel to and it will be stored.

To recall a stored preset, press (but don't hold) the PRESET

The XM-100 SETUP Mode allows you to configure options such as forced tuning, blocking, skipping, etc.

To enter the SETUP Mode, press and hold the MODE button on the front of the unit for 4 seconds or depress the SETUP button on the remote. The Setup indicator illuminates, and the menu shown below appears.

> Setup Menus Mode to Exit

Navigating Setup Menus

The top level structure of the menu system is shown below and indicates which parameters may be configured. In SETUP Mode, the channel up/down buttons on the unit or remote control are used to scroll though the menu options. The Mode button or Setup button on the remote is used to descend to a sub-menu, or to exit up to a higher level.

At the top level menu heading shown above, pressing the Mode button on the unit or remote control exits to normal unit operation. You must navigate back to this menu using the up/down keys for the Mode button to exit back to normal operation of the unit. To help avoid confusion, with few exceptions (in sub menus of blocking or skipping), pressing the power button on the unit or remote control will exit out of Setup Mode and restore normal operation. If you feel stuck in a submenu - press the power button to get out.



Wropo Around

button brings up the following menu:

CN1	CN2	TBER
#.#	#.#	###

This menu may also be displayed by holding the power button for 4 seconds when at the main display. Pressing the Mode button returns up one menu level. Pressing the power button exits the setup menus to normal operation.

CN1 and CN2 indicate the carrier to noise ratio of the satellite signal received from the two XM satellites positioned in the southern sky over the equator. The higher the number the better, and both numbers should be 10 or greater for good margin, but not less than 7.0.

TBER is the percentage of bit errors received from a terrestrial repeater, if there is one. Acceptable values for this number may be anywhere from 0% if a repeater is nearby, to 100% if only the satellite signals are available – lower is better.

Position and rotate the antenna for the optimum balance (highest readings) for CN1 and CN2. Note that CN1 measures signal received from the satellite in the Eastern sky, CN2 signal received from the satellite in the Western sky. Obstructions such as trees or tall buildings may interfere with reception of one or more satellite signals and require the antenna to be repositioned.

Line Level

When Setup – Line Level is displayed, pressing the Mode button brings up the following menu:

Line Level

up/down buttons.

Front Lock

When Setup – Front Lock is displayed, pressing the Mode button brings up the following menu:

Front	Lock?
Locked	ł

The buttons on the front of the XM-100 unit may be locked or unlocked using this feature. Locking the unit may be useful if a store manager or parent wishes to ensure the desired channel is not altered. When locked and a button on the unit is pressed, the work LOCKED briefly appears and no change is made to the current channel or power state.

Note that the remote control will still continue to operate normally, and therefore it must be secured for this lockout to be useful. The remote is also required to unlock the front panel – press the setup key on the remote to enter the menus allowing the front to be set to unlocked.

Time Zone

When Setup – Time Zone is displayed, pressing the Mode button brings up the following menu:

Timezone? Pacific

Use the up/down keys to set the proper time zone and press the Mode key to ascend back up one menu level. button brings up the following menu:

SETU	JP	DST	Y
MAR	2	NOV	1

This submenu shows you a summary of all the daylight savings time parameters. The "Y" next to the "DST" indicates yes, daylight savings time is observed in your region. On the second line, there are 4 items, the spring forward month (March in this example), the spring forward Sunday (note that the 2 in this example means the second Sunday of March, NOT March 2nd), the fall back month, and the fall back Sunday. This menu does not allow edits. It allows you to guickly see all the daylight savings time parameters. If you do not wish to change any of them, press the Up key to return to the previous menu. If you need to change any parameter, press the Mode key and cycle through the next 5 submenus. Changes made in each submenu are saved when you press the Mode key. If you press the Power button, you will exit Setup Mode and not save the change made in the current submenu. The default parameters shown below reflect the Energy Policy Act of 2005, which took effect in 2007.

SETUP	DST
OBSERV	/E? Y

Use the up/down keys to set whether the unit resides in an area that observes daylight savings. Press the Mode key to go to the next submenu.

SETU	DS'	Г
SPRG	FWD	MAR

Use the up/down keys to set the spring forward month, when daylight savings time begins. Press the Mode key to save the change and go to the next submenu.

DLIOI			
FALL	ΒK	NOV	

Press the up/down keys to change the fall back month, when daylight savings time ends and standard time resumes. Press the Mode key to save the change and go to the next submenu.

SETUP	DS	ST
FALL	ВK	W:1

Press the up/down keys to change the Sunday of the month when standard time resumes. Press the Mode key to exit this submenu loop and return to the "SETUP - DLT SAVING" menu.

These settings are required for forced tune events so that correct local time can be derived from the broadcast GMT time.

Channel Blocking

When Setup – CH Blocking is displayed, pressing the Mode button brings up the following menu:

```
Block ###? N
PWR Toggles
```

Using the Channel Blocking feature, you can block specific channels so that they cannot be accessed. Parents or store managers may find this feature useful for preventing access to specific content. To block one or more channels:

- ? Use the up/down buttons to scroll to the channel you want to block.
- ? Use the POWER button to toggle the status between blocked "Y" or unblocked "N".
- ? Block (or unblock) as many channels as you choose. When

button brings up the following menu:

Skip ###? N PWR Toggles

In the course of using the XM-100 you may find that there are specific channels you prefer not to listen to and would rather skip over. Using XM-100's SKIP feature, you can program the unit to skip over these channels when scrolling using the up/down buttons or remote control. (Note that you can still access the "skipped" channels using the direct tune method.)

To configure a channel to be skipped when scrolling:

- ? Use the up/down buttons to scroll to the channel you want to skip (or add back a currently skipped channel).
- ? Use the POWER button to toggle the status between skipped "Y" or not skipped "N". "B" indicates the channel is blocked, and therefore will automatically be skipped.
- ? Add and Skip as many channels as you prefer. When finished, press the MODE button to return to the SETUP display.

Forced Tuning

When Setup – Forced Tuning is displayed, pressing the Mode button brings up the following sub menu structure:



Forced Tuning is an advanced feature for the commercial market that allows programmed events to occur throughout the day or week in an unattended manner. These events can program the unit to turn on or off, lock and unlock the front buttons, change channel, and change volume. Up to 100 events may be programmed in the XM-100.

Use of the provided remote control is required to review or program Forced Tune events. This functionality cannot be accessed from the front panel.

The up/down arrows of the remote navigate through the first 4 menu selections displayed above. Pressing the SEL key on the remote (in the center of top button cluster) selects the displayed menu option and brings up a sub menu described below. Pressing the Mode button exits out of this function.

The first 3 menu choices - Forced Tuning by Day&Time, Forced Tuning by Time, and Forced Tuning by Channel allow you to review previously set forced tune events sorted for display in 3 different ways. Each display method shows identical and complete information for each Forced Tune event, only the order of events displayed is different between the 3 options. These options are provided to help manage advanced The second display choice, Forced Tuning by Time, displays Forced Tune events sorted by time of day without consideration of what days of the week the event is effective.

The third display choice, Forced Tuning by Channel, displays Forced Tune events sorted by channel number without regard to any other parameter.

The final menu, Add New, allows you to add a new Forced Tune event.

Selecting any of the 4 top level menu choices brings up the following display, with each field described in detail.



"Any" allows for a volume change applied to the current audio channel at the programmed time – a feature useful for decreasing the audio volume during slow hours of a restaurant or bar. Locking and unlocking the front buttons for specific hours of the day (LCK, UNL) and turning off the unit at a specified time (Off) may also be programmed. Note that subsequent to a programmed "Off" period, any valid forced tune event to a channel will turn the unit back "On". An existing event is deleted by choosing DEL in this field.

When finished reviewing, adding, or deleting Forced Tune events with this menu, pressing the SEL button on the remote will prompt to save the changes. Selecting either Yes or No will return you to the Edit or Add New screen.

Pressing the Mode button will exit and not save any changes.

The XM-100's remote control provides identical functionality to the buttons on the front panel.



CATEGORY specific audio Hits, Decades,

The XM-100 has been designed for easy integration into distributed audio systems by professional installers using the RS232 control port. Antex strongly recommends that the RS232 connection be used only by experienced professional installers. Do not connect this RS232 port to a computer – this connection is NOT compatible with personal computers. See <u>www.antex.com</u> for more information about using the RS232 control port, command sets, and available macros for third party control systems.

Technical Assistance

For service inquiries or activation/deactivation information, contact XM on the Web at <u>www.xmradio.com</u> or by phone at 1-800-XM-RADIO (or 1-800-967-2346).

Technical assistance with the radio is available from Antex via:

email: <u>asupport@antex.com</u> Web: <u>www.antex.com</u> Phone: (310) 532-3092, ext 18 or 33, 7AM to 5PM PDT

12 Month Limited Warranty

Antex Electronics Corporation (the Company), warrants to the original purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months of the original date of purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the Company's

generated static or noise, to correction of antenna problems, to costs incurred for installation, removal or reinstallation of the product, or damage to other components.

This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal of any factory applied markings. THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE, AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

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Antex Electronics Corporation